

## WHAT IS CLAIMED IS:

1.

A method of offering wall-thickness thinning prediction  
5 information in which wall-thickness data of piping parts  
for specifying wall-thickness values of the piping parts is  
received from a client, and simulated wall-thickness data  
of the piping parts obtained based on the received wall-  
thickness data is offered to the client, the method  
10 comprising the steps of:

simulating behavior of fluid flowing inside a pipe  
line based on said received wall-thickness data of said  
piping parts and three-dimensional layout data of said pipe  
line including said piping parts using a computer;

15 calculating simulated wall-thickness data of said  
piping parts composing said pipe line from change of said  
simulated behavior of fluid; and

sending said simulated thinned wall-thickness data to  
the client.

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2. A method of offering wall-thickness thinning  
prediction information according to claim 1, therein  
said three-dimensional layout data is data sent from the  
client.

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3. A method of offering wall-thickness thinning  
prediction information according to claim 1, therein

said piping parts composing said pipe line to be obtained said wall-thickness data thereof includes a piping part different from said piping parts shown by said wall-thickness data of said piping parts received from said client.

4. A computer readable recording medium storing a wall-thickness prediction program for predicting wall thickness of thinned pipes using a computer based on wall-thickness data of piping parts of which wall-thickness is specified, which stores programs making the computer execute:

processing to simulate change of behavior of fluid flowing inside a pipe line based on said wall-thickness data of said piping parts and three-dimensional layout data of said pipe line including said piping parts; and

processing to calculate thinned wall-thickness data of said piping parts composing said pipe line from the simulated change of behavior of fluid.

5. A method of planning a piping work plan, the method comprising the steps of:

estimating wall thickness of a pipe in a future time by simulating behavior of fluid flowing in the pipe; and

planning a plan for replacing the pipe based on the estimated wall thickness.